APRIL/MAY 2025

FEEL63B/CEEL63B/BEEL63B— COMPUTER NETWORKS

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

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1. What is packet switch?
2. What is message switching?
3. What does a physical layer describe?
4. What is IEEE 802.6?
5. Mention the two sub layers involved in data link layer.
6. What do you mean by selective repeat?
7. What is a repeater?
8. What is the function of transport layer?
9. Define the term: Ethernet.
10. What is meant by SONET?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the functions of OSI 7 layer model.

Or

(b) Explain the Circuit Switching.

12. (a) Describe the transmission media used in physical layer.

Or

(b) Write a note on finite ALOHA.

13. (a) Explain the basic purposes of data link layer protocol implementations.

Or

(b) Explain in detail the two types of frame.

14. (a) Describe the functions of network layer.

Or

(b) Give a brief account on session layer.

15. (a) Explain the term: Cryptography.

Or

(b) What is ATM? Explain briefly.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain with suitable sketches, the star, mesh, tree and bus structures.

17. Explain the following LAN protocols:

(a) IEEE 802.3 (b) IEEE 802.5

18. Describe cyclic redundancy check used for error checking procedure.

19. Give detail account on transport layer.

20. Explain the following :

(a) FDDI

(b) DQDB.

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